

EH Resident Competency 1.28

Competency 1.28 EH Residents shall demonstrate a familiarity level knowledge of the safety hazards associated with means of egress.

1. Supporting Knowledge and Skills

- a. Discuss the requirements for exits.
- b. Discuss the following elements of an Emergency Action Plan:
 - Escape procedures and routes
 - Employee accountability
 - Means of reporting emergencies
 - Persons to contact for information
- c. Describe the requirements for the following elements of an Emergency Action Plan:
 - Staging areas
 - Alarms
 - Postings
 - Drills and training

2. Self-Study Activities (corresponding to the intent of the above competency)

Below are two web sites containing many of the references you may need.

Web Sites		
Organization	Site Location	Notes
Department of Energy	http://wastenot.inel.gov/cted/stdguido.html	DOE Standards, Guides, and Orders
U.S. House of Representatives	http://law.house.gov/cfr.htm	Searchable Code of Federal Regulations

Read Sections 1910.35, Definitions, and 1910.36, General Requirements, page 33, of Subpart E, Means of Egress, of 29 *Code of Federal Regulations* (CFR) 1910, "Occupational Safety and Health Standards for General Industry."

EXERCISE 1.28-A Referring to 29 CFR 1910.35, define "means of egress."

EXERCISE 1.28-B Referring to 29 CFR 1910.35, define "exit."

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EXERCISE 1.28-C Referring to 29 CFR 1910.36, what is the primary requirement for exits?

Read Section 1910.38, Employee Emergency Plans and Fire Prevention plans, and the appendix to Subpart E, Means of Egress, Employee Emergency Plans, pages 35-36, of 29 CFR 1910, "Occupational Safety and Health Standards for General Industry."

EXERCISE 1.28-D Referring to 29 CFR 1910.38, what are the basic elements of an emergency action plan?

EXERCISE 1.28-E Referring to 29 CFR 1910.38, what are the basic elements of a fire prevention plan?

EXERCISE 1.28-F Referring to 29 CFR 1910, appendix to Subpart E, what is the purpose of designating a safe or refuge area?

EXERCISE 1.28-G Referring to 29 CFR 1910, appendix to Subpart E, what is the "warden," and what is its function?

EXERCISE 1.28-H Referring to 29 CFR 1910, appendix to Subpart E, what is the purpose of fire prevention housekeeping?

EXERCISE 1.28-I Referring to 29 CFR 1910.38, when must the employer inform the employee about the emergency action plan?

3. Summary

Proper egress from a building or structure will ensure the safety of its occupants during a fire or other emergency. Establishing this process (of proper egress) entails the development of emergency action and fire prevention plans and requiring various safety codes and specifications for buildings and structures to contain exits, fire protection equipment/systems, and other safety features.

4. Exercise Solutions

EXERCISE 1.28-A Referring to 29 CFR 1910.35, define "means of egress."

ANSWER 1.28-A A means of egress is a continuous and unobstructed way of exit travel from any point in a building or structure to a public way, and consists of three parts: the way of exit access, the exit, and the way of exit discharge.

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EXERCISE 1.28-B Referring to 29 CFR 1910.35, define “exit.”

ANSWER 1.28-B An exit is that portion of an egress which is separated from all other spaces in the building or structure to provide a protected way of travel to the exit discharge.

EXERCISE 1.28-C Referring to 29 CFR 1910.38, what is the primary requirement for exits?

ANSWER 1.28-C Every building or structure, new or old, designed for human occupancy shall be provided with exits sufficient to permit the prompt escape of the occupants in case of fire or other emergency.

EXERCISE 1.28-D Referring to 29 CFR 1910.38, what are the basic elements of an emergency action plan?

ANSWER 1.28-D

1. Emergency escape procedures and escape route assignments
2. Procedures for employees to operate critical plant operations before they evacuate
3. Procedures to account for employees after an emergency evacuation
4. Rescue and medical duties of designated employees
5. Preferred means of reporting emergencies
6. Names of persons who can provide additional information regarding this plan

EXERCISE 1.28-E Referring to 29 CFR 1910.38, what are the basic elements of a fire prevention plan?

ANSWER 1.28-E

1. A list of workplace hazards, handling and storage procedures, potential ignition sources, control procedures, and available fire protection equipment
2. Names of the persons responsible for maintenance of the fire protection equipment
3. Names of the persons responsible for control of fuel source hazards

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EXERCISE 1.28-F Referring to 29 CFR 1910, appendix to Subpart E, what is the purpose of designating a safe or refuge area?

ANSWER 1.28-F In the event of an emergency, employees can be evacuated from a danger area to a safe one; once there, the employees can be accounted for.

EXERCISE 1.28-G Referring to 29 CFR 1910, appendix to Subpart E, what is the “warden,” and what is its function?

ANSWER 1.28-G The warden is an employee designated to help move other employees/occupants, in the event of an emergency, away from the danger zone to a safe area.

EXERCISE 1.28-H Referring to 29 CFR 1910, appendix to Subpart E, what is the purpose of fire prevention housekeeping?

ANSWER 1.28-H The purpose of fire prevention housekeeping is to control the accumulation of flammable and combustible waste materials so that a fast developing fire, rapid spread of toxic smoke, or an explosion will not occur.

EXERCISE 1.28-I Referring to 29 CFR 1910.38, when must the employer inform the employee about the emergency action plan?

ANSWER 1.28-I

1. When the plan is developed
2. When the employee's responsibilities or actions in the plan change
3. When the plan changes